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| APPLICATION NO.     | FILING DATE                           | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|---------------------|---------------------------------------|----------------------|---------------------|------------------|
| 10/624,016          | 07/21/2003                            | Jun Takagi           | AA536XC&            | 5747             |
| 27752<br>THE PROCTE | 7590 05/17/2007<br>R & GAMBLE COMPAN  | ١Y                   | EXAMINER            |                  |
| INTELLECTU          | CTUAL PROPERTY DIVISION - WEST BLDG.  |                      | BOGART, MICHAEL G   |                  |
|                     | L BUSINESS CENTER -<br>. HILL AVENUE. |                      |                     | PAPER NUMBER     |
| CINCINNATI,         | OH 45224                              |                      | 3761                |                  |
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|                     |                                       |                      | 05/17/2007          | PAPER            |

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

|  |   |   | *   |  |
|--|---|---|---|--|
|  | X   | Application No.   | Applicant(s)  |  |
| Office Action Summary                                |   | 10/624,016  | TAKAGI ET AL.   |  |
|  |   | Examiner  | Art Unit  |  |
|  |   | Michael G. Bogart   | 3761  |  |
| Period fo  | The MAILING DATE of this communication appor Reply  | pears on the cover sheet with the   | correspondence address  |  |
| WHIC<br>- Exte<br>after<br>- If NC<br>- Failu<br>Any | ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DANSIONS of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. O period for reply is specified above, the maximum statutory period varie to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing ed patent term adjustment. See 37 CFR 1.704(b). | ATE OF THIS COMMUNICATIO<br>36(a). In no event, however, may a reply be tin<br>will apply and will expire SIX (6) MONTHS from<br>the cause the application to become ABANDONE | N. mely filed the mailing date of this communication. ED (35 U.S.C. § 133). |  |
| Status   |   |   |   |  |
| 2a)  | Responsive to communication(s) filed on <u>05 M</u> This action is <b>FINAL</b> . 2b) This Since this application is in condition for allowar closed in accordance with the practice under E  | action is non-final.<br>nce except for formal matters, pr   |   |  |
| Dienocit   | ion of Claims   |   |   |  |
| 4)⊠<br>5)□<br>6)⊠<br>7)□                             | Claim(s) 1-10 is/are pending in the application.  4a) Of the above claim(s) is/are withdray.  Claim(s) is/are allowed.  Claim(s) 1-10 is/are rejected.  Claim(s) is/are objected to.  Claim(s) are subject to restriction and/o   | wn from consideration.  | •   |  |
| Applicat   | ion Papers  |   |   |  |
| 10)⊠   | The specification is objected to by the Examine The drawing(s) filed on 21 July 2003 is/are: a) Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct The oath or declaration is objected to by the Ex   | ☑ accepted or b) ☐ objected to drawing(s) be held in abeyance. Se tion is required if the drawing(s) is ob  | ee 37 CFR 1.85(a).<br>Djected to. See 37 CFR 1.121(d).                      |  |
| Priority   | under 35 U.S.C. § 119   |   |   |  |
| a)   | Acknowledgment is made of a claim for foreign All b) Some * c) None of:  1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority document application from the International Bureau See the attached detailed Office action for a list  | s have been received. s have been received in Applicative rity documents have been receive u (PCT Rule 17.2(a)).  | tion No red in this National Stage  |  |
| 2) Notion Notion Notion Notion                       | ce of References Cited (PTO-892) ce of Draftsperson's Patent Drawing Review (PTO-948) rmation Disclosure Statement(s) (PTO/SB/08) er No(s)/Mail Date  | 4) Interview Summar<br>Paper No(s)/Mail E<br>5) Notice of Informal<br>6) Other:   | Date  |  |

#### **DETAILED ACTION**

## Claim Rejections - 35 USC § 102/103

The following is a quotation of the appropriate paragraphs of 35 U.S.C. § 102 that form the basis for the rejections under this section made in this Office action:

- (a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.
- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- (f) he did not himself invent the subject matter sought to be patented.

The following is a quotation of 35 U.S.C. § 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. § 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. § 103(c) and potential 35 U.S.C. § 102(e), (f) or (g) prior art under 35 U.S.C. § 103(a).

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Claims 1, 2, 4, 5, 7, 8 and 10 are rejected under 35 U.S.C. § 102(b) as anticipated by or, in the alternative, under 35 U.S.C. § 103(a) as obvious over Penska (US 3,101,714).

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Regarding claim 1, Penska teaches a catamenial tampon comprising:

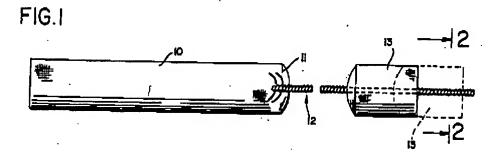
a primary absorbent member (10); and

a withdrawal cord (12) having a withdrawal portion and an attachment portion, the attachment portion being joined to the primary absorbent member (10);

the withdrawal cord (12) being a composite yarn (14, 15, 16) which includes a continuous string (14, 16), and a secondary absorbent member (15);

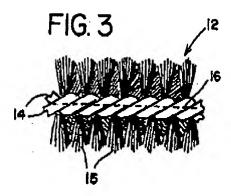
wherein the continuous string (14, 16) and secondary absorbent member (15) are a single piece of the composite yarn (14, 15, 16); and

wherein the continuous string (14, 16) is woven according to a predetermined weaving manner after being provisionally twisted, thereby forming the attachment portion and the withdrawal portion (col. 1, lines 64-70)(see figures 1 & 3, infra).



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As interpreted herein, "composite" means made up of distinct parts (see Merriam Webster's Collegiate Dictionary, 10<sup>th</sup> Edition, 1996).

The limitation concerning how the string is woven and twisted make claim 1 a productby-process claim.

Product-by-process claims are not limited to the manipulations of the recited steps, only the structure implied by the steps.

"[E]ven though product-by-process claims are limited by and defined by the process, determination of patentability is based on the product itself. The patentability of a product does not depend on its method of production. If the product in the product-by-process claim is the same as or obvious from a product of the prior art, the claim is unpatentable even though the prior product was made by a different process." *In re Thorpe*, 777 F.2d 695, 698, 227 USPQ 964, 966 (Fed. Cir. 1985) (citations omitted).

Once a product appearing to be substantially identical is found and a 35 USC § 102/103 rejection is made, the burden shifts to the applicant to show an unobvious difference. MPEP § 2113.

63-70; col. 2, lines 26-37).

Penska teaches a string that is structurally identical to the invention as claimed whether or not the cords (14) are woven (stitched (16)) together before or after they are twisted (see figure 3, below).

Regarding claim 2, Penska teaches a continuous string (14, 16) woven in a twisting-tubular manner (see figure 3, supra).

Regarding claims 4 and 5, Penska teaches that the attachment portion of the withdrawal cord (12) is stitched (11, 16) to the primary absorbent member (10) such that it is structurally identical to a stitched attachment made according to a predetermined stitching manner;

and further wherein at least a part of the withdrawal portion of the withdrawal cord (12) is additionally stitched (11, 16) such that it is structurally identical to a stitched attachment according to the predetermined stitching manner. See *In re Thorpe*, supra.

Regarding claims 7 and 8, Penska teaches that the withdrawal cord (12) has a wicking mechanism (15) which wicks a fluid upwardly toward the primary absorbent member (10); and wherein the wicking mechanism is a hydrophilicity gradient, a density gradient or a capillary gradient formed in the withdrawal cord (12) due to the absorbent tufts (15)(col. 1, lines

Regarding claim 10, Penska teaches a plurality of strings (14)(see figure 3, supra).

Claims 1 and 3 are rejected under 35 U.S.C. § 102(e) as being anticipated by Taylor *et al*. (US 6,258,075 B1).

The applied reference has a common assignee with the instant application. Based upon the earlier effective U.S. filing date of the reference, it constitutes prior art under 35 U.S.C. § 102(e). This rejection under 35 U.S.C. § 102(e) might be overcome either by a showing under

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37 CFR § 1.132 that any invention disclosed but not claimed in the reference was derived from the inventor of this application and is thus not the invention "by another," or by an appropriate showing under 37 CFR § 1.131.

Regarding claim 1, Taylor *et al.* teach teaches a catamenial tampon (20) comprising: a primary absorbent member (21); and

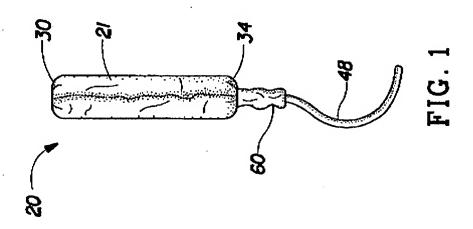
a withdrawal cord (48, 60) having a withdrawal portion and an attachment portion, the attachment portion being joined to the primary absorbent member (21);

the withdrawal cord (48, 60) being a composite yarn which includes a continuous string (48), and a secondary absorbent member (60);

wherein the continuous string (48) and secondary absorbent member (60) are a single piece of the composite yarn; and

wherein the continuous string (48) is woven according to a predetermined weaving manner after being provisionally twisted, thereby forming the attachment portion and the withdrawal portion (col. 11, lines 1-35)(see figure 1, infra).

Taylor *et al.* teach that the withdrawal ribbon can include the secondary absorbent member (col. 11, lines 29-35).



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As interpreted herein, "composite" means made up of distinct parts.

Regarding the interpretation that Taylor *et al.* teach an end product that has an identical string and stitched attachment to that of the claimed invention, Taylor *et al.* teach that the string (48) is sewed (stitched) to the main body (21)(col. 7, line 48). If the presumably non-twisted withdrawal string of the reference were sewed to the main body while the string was in a gently twisted state, it would untwist itself after attachment to the body as it returned to its naturally untwisted state, making the end product identical to the claimed invention. See *In re Thorpe*, supra.

Regarding claim 3, Taylor *et al.* teach a diameter ratio of the attachment portion (60) to the withdrawal portion (48) of the withdrawal cord (48, 60) is at least about 1.5 (figure 1).

Claims 1 and 3 are rejected under 35 U.S.C. § 102(a) as being anticipated by Taylor *et al.* (WO 00/61052 A1; hereinafter '052).

See the detailed rejection under Taylor *et al.*, supra. In the international patent issued prior to the filing date of the claimed invention, '052 expressly discloses every limitation of claims 1 and 3. There is no common inventor in '052 and the instant invention. This demonstrates that the claimed subject matter was known and used by other prior to the filing date of the instant application.

Claims 1 and 3 are rejected under 35 U.S.C. § 102(f) because the applicant did not invent the claimed subject matter.

As described supra in the rejection under 35 USC § 102(e) over Taylor *et al.*, '052 expressly discloses every limitation of claims 1 and 3 in a patent published prior to the filing date of the instant invention. '052 does not share any common inventors with that of the present

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invention, and thus preclude finding that applicants are the actual inventors of the claimed invention.

# Claim Rejections - 35 USC § 103

Claim 6 is rejected under 35 U.S.C. § 103(a) as being unpatentable over Penska as applied to claims 1, 2, 4, 5, 7, 8 and 10 above, and further in view of Hirayama (US 4,237,804).

Penska does not show double ring stitching according to (JIS) No. B 9070.

Hirayama teaches the use of this standard in industrial sewing (column 3, lines 25-33).

At the time of the invention, it would have been obvious to one of ordinary skill in the art to apply the double stitching technique of Hirayama to construct the tampon of Penska as this type of stitch provides a very secure attachment.

Claim 9 is rejected under 35 U.S.C. § 103(a) as being unpatentable over Penska as applied to claims 1, 2, 4, 5, 7, 8 and 10 above, in view of Brinker (US 5,592,725 A).

Penska does not teach an absorbent member comprising fleece.

Brinker teaches a tampon having an absorbent member comprising fleece (abstract).

At the time of the invention, it would have been obvious to one of ordinary skill in the art to select fleece to construct the second absorbent member of Penska with fleece as taught by Brinker as the material is widely available, is an effective absorbent and is inexpensive.

### Response to Arguments

Applicant's arguments filed 05 March 2007 have been fully considered but they are not persuasive.

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Regarding the rejection of claim 1 and 3 under Taylor *et al.* and '052, applicants assert that the references do not teach a continuous string and secondary absorbent member are a single piece of yarn. This argument is not persuasive because the references teach that the withdrawal mechanism can itself include the secondary absorbent member (see Taylor *et al.*, col. 11, lines 29-35). Also, The references teach the withdrawal mechanism can include yarn (col. 11, lines 11-15).

Applicant's arguments with respect to claims 1, 2 and 4-10 have been considered but are moot in view of the new ground(s) of rejection. Specifically, although the same reference is applied, the secondary absorbent member of Penska is now interpreted to be the absorbent tuft component (15) of the withdrawal cord (12).

#### Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Michael Bogart whose telephone number is (571) 272-4933.

In the event the examiner is not available, the Examiner's supervisor, Tatyana Zalukaeva may be reached at phone number (571) 272-1115. The fax phone number for the organization where this application or proceeding is assigned is (571) 273-8300 for formal communications. For informal communications, the direct fax to the Examiner is (571) 273-4933.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (571) 272-3700.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

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may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair\_direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Michael Bogart 10 May 2007

> TATYANA ZALUKAEVA SUPERVISORY PRIMARY EXAMINER